

FIG. 4A
(PRIOR ART)

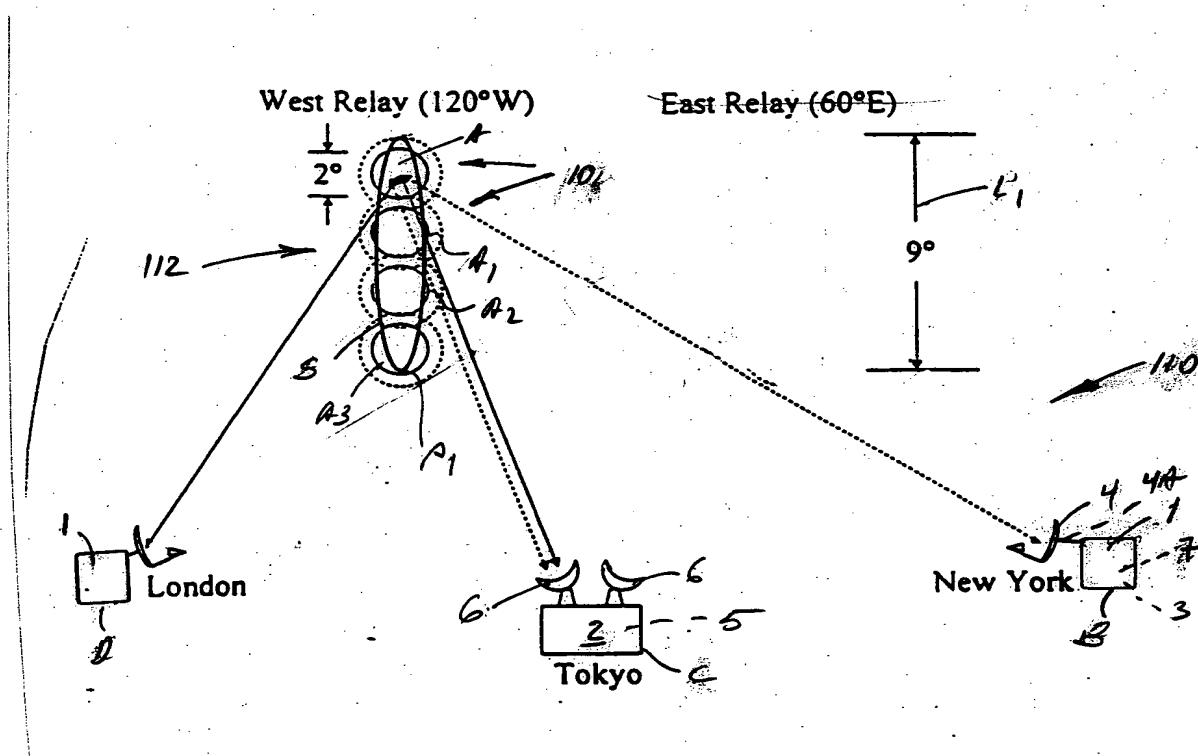
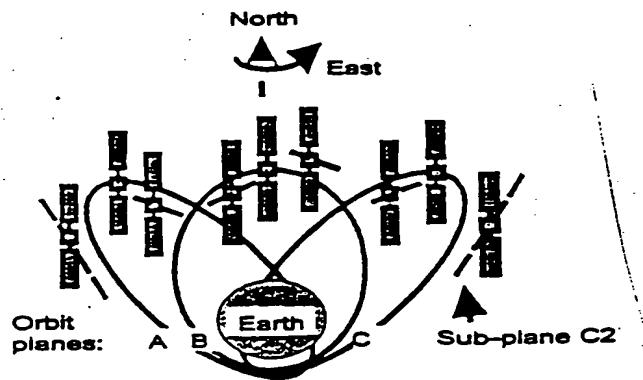


FIG. 1

FIG. 2



100728Z SEP 67

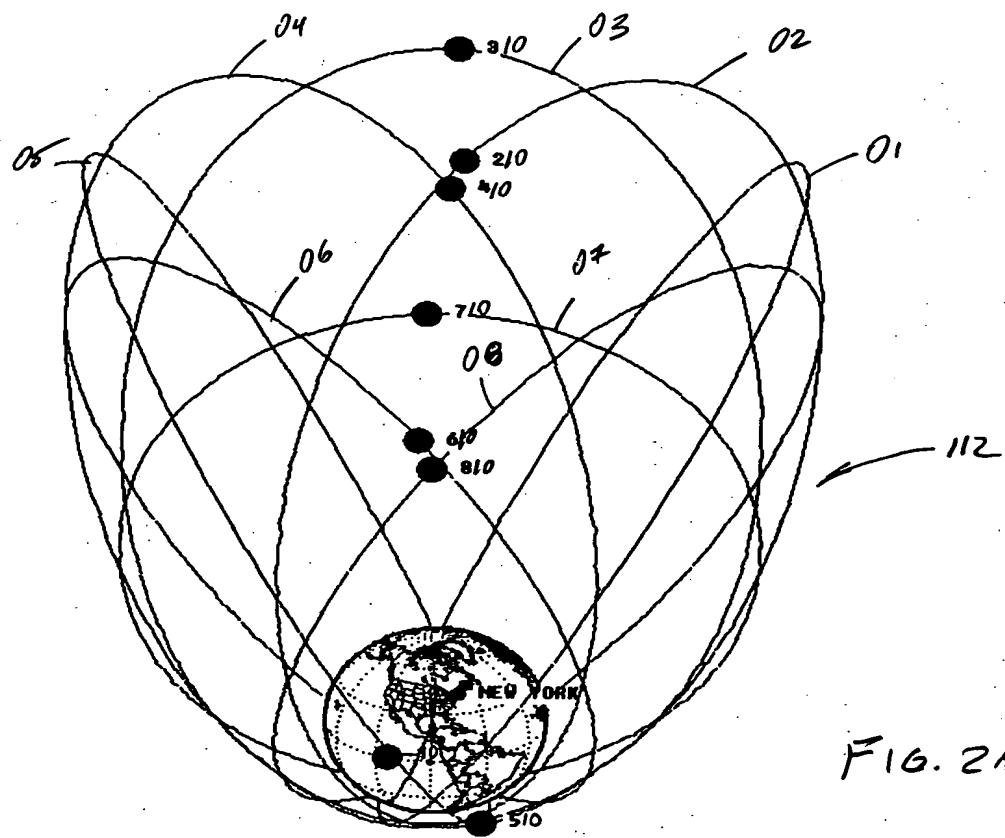


FIG. 2A

8 SATELLITES IN MOLNIYA ORBITS

2025 RELEASE UNDER E.O. 14176

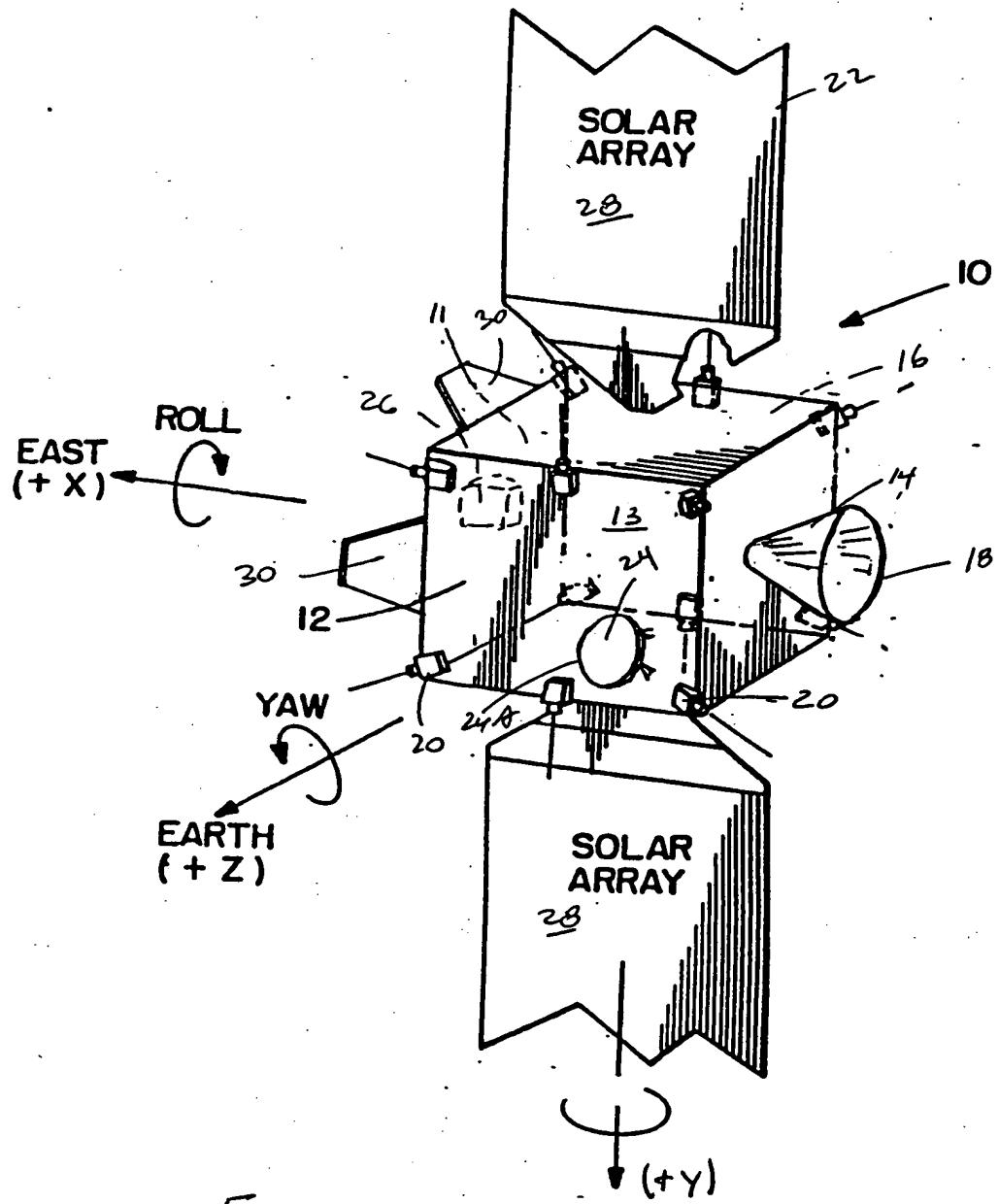
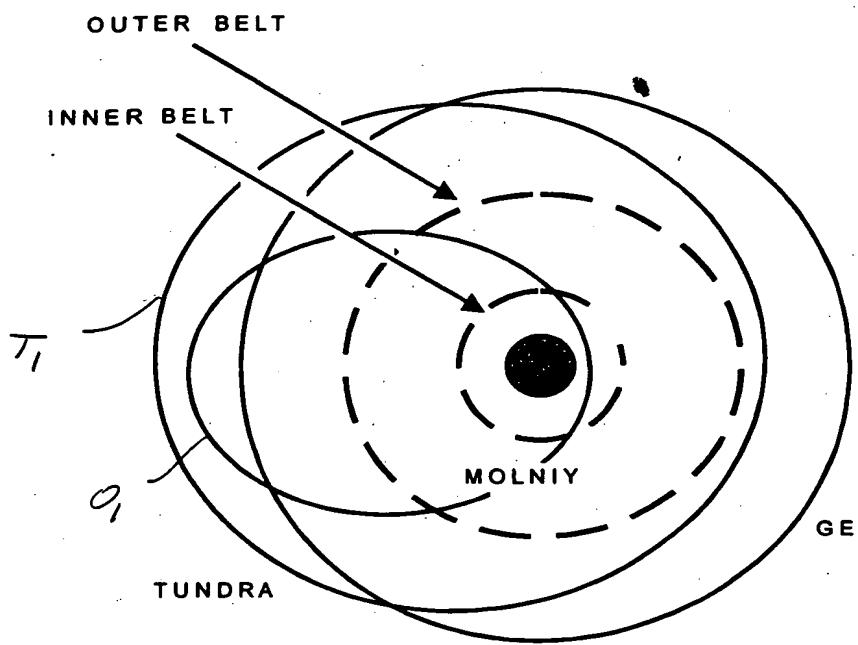


FIG. 3

224738 2892700



INNER BELT MAXIMUM INTENSITY AT ABOUT 10000 KM RADIUS

OUTER BELT MAXIMUM INTENSITY AT ABOUT 27000 KM RADIUS

TUNDRA ORBIT PERIGEE IS AT 31700 KM RADIUS

FIG. 4
(PRIOR ART)

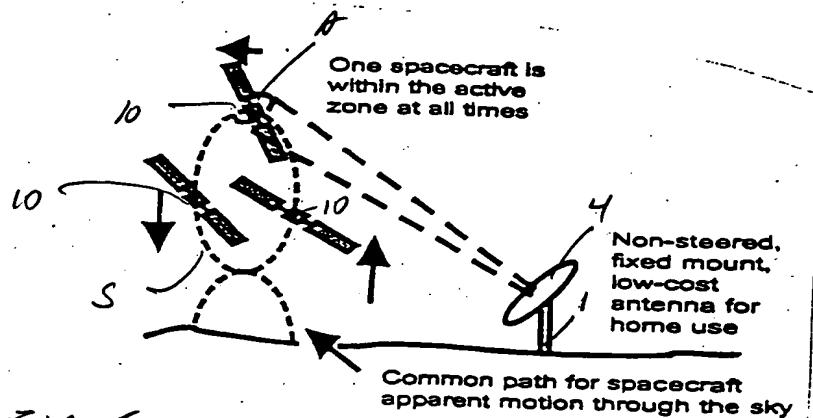


FIG. 5A

10072699-024102

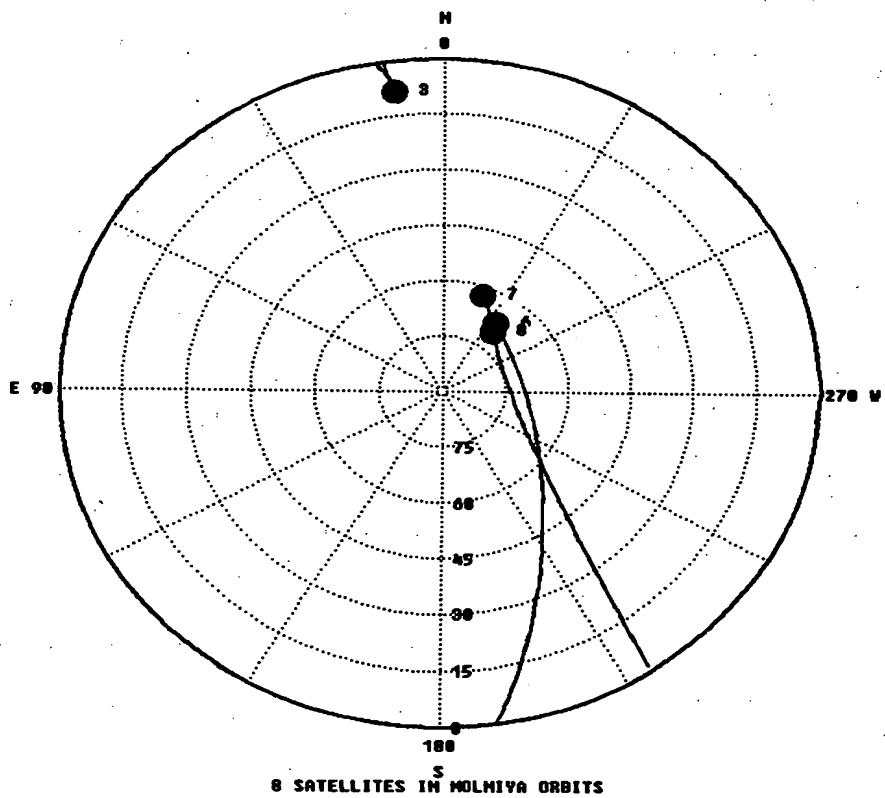


FIG. 5B

24 HOUR TUNDRA ORBIT WITH INCLINATION 55 DEG., ECCENTRICITY 0.268
ARGUMENT OF PERIGEE HISTORY - LUNI-SOLAR AND OBLATENESS PERTURBATIONS

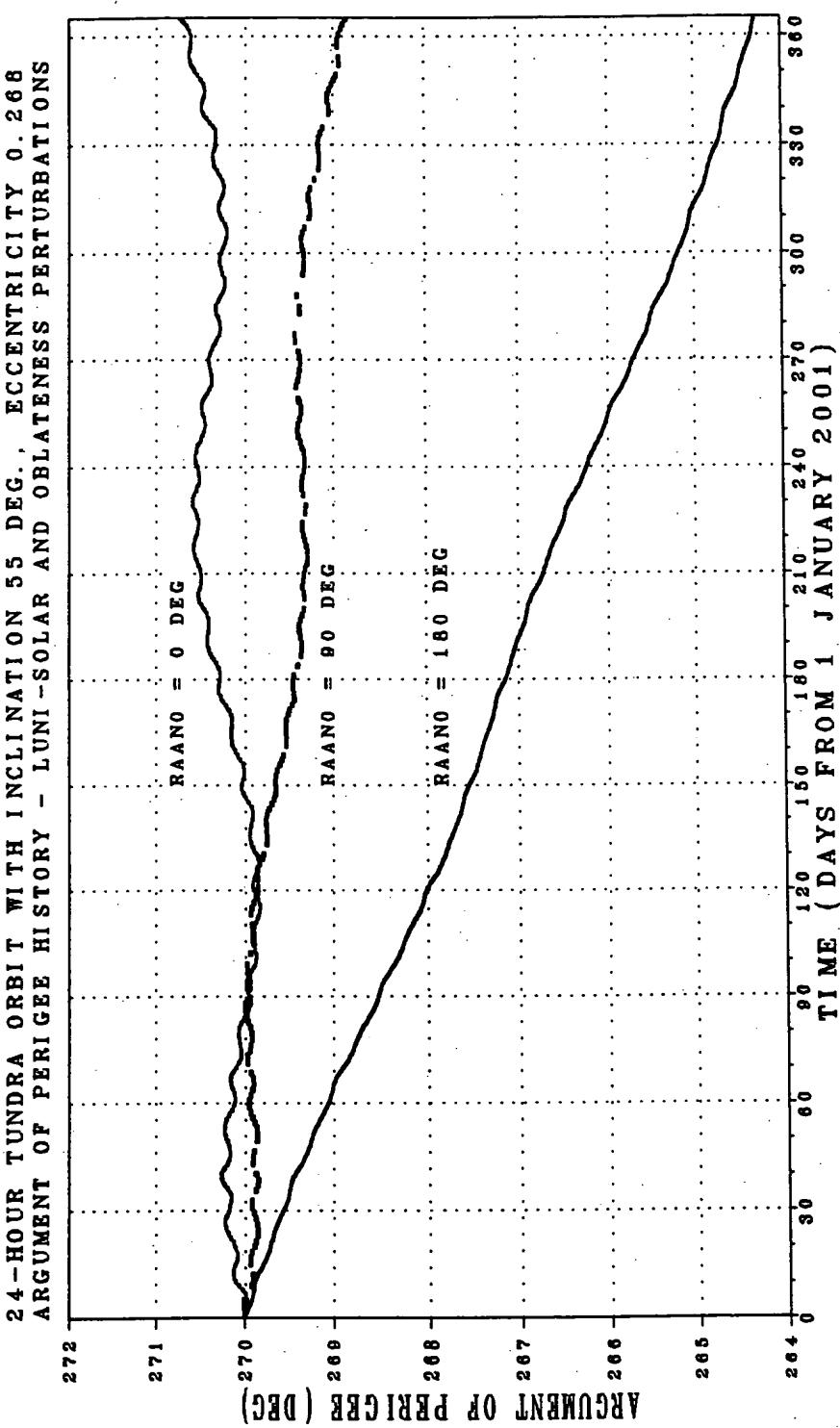


Fig. 6

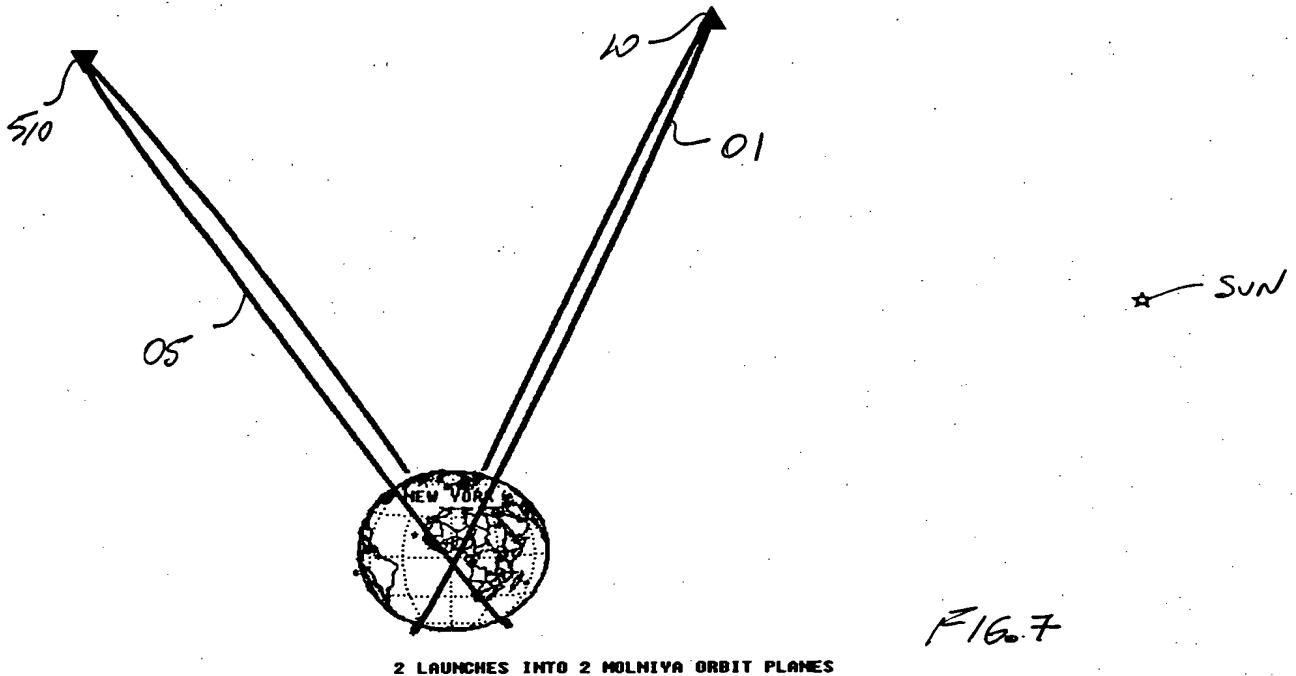


FIG. 7

2 LAUNCHES INTO 2 MOLNIYA ORBIT PLANES

23 25 28 30 32 34 36

ELEVATION OF ORBIT APOGEE FOR GROUND STATION
TUNDRA--55 DEG. INCL. (SOLID LINES), GEOSYNCHRONOUS (DASHED LINES)

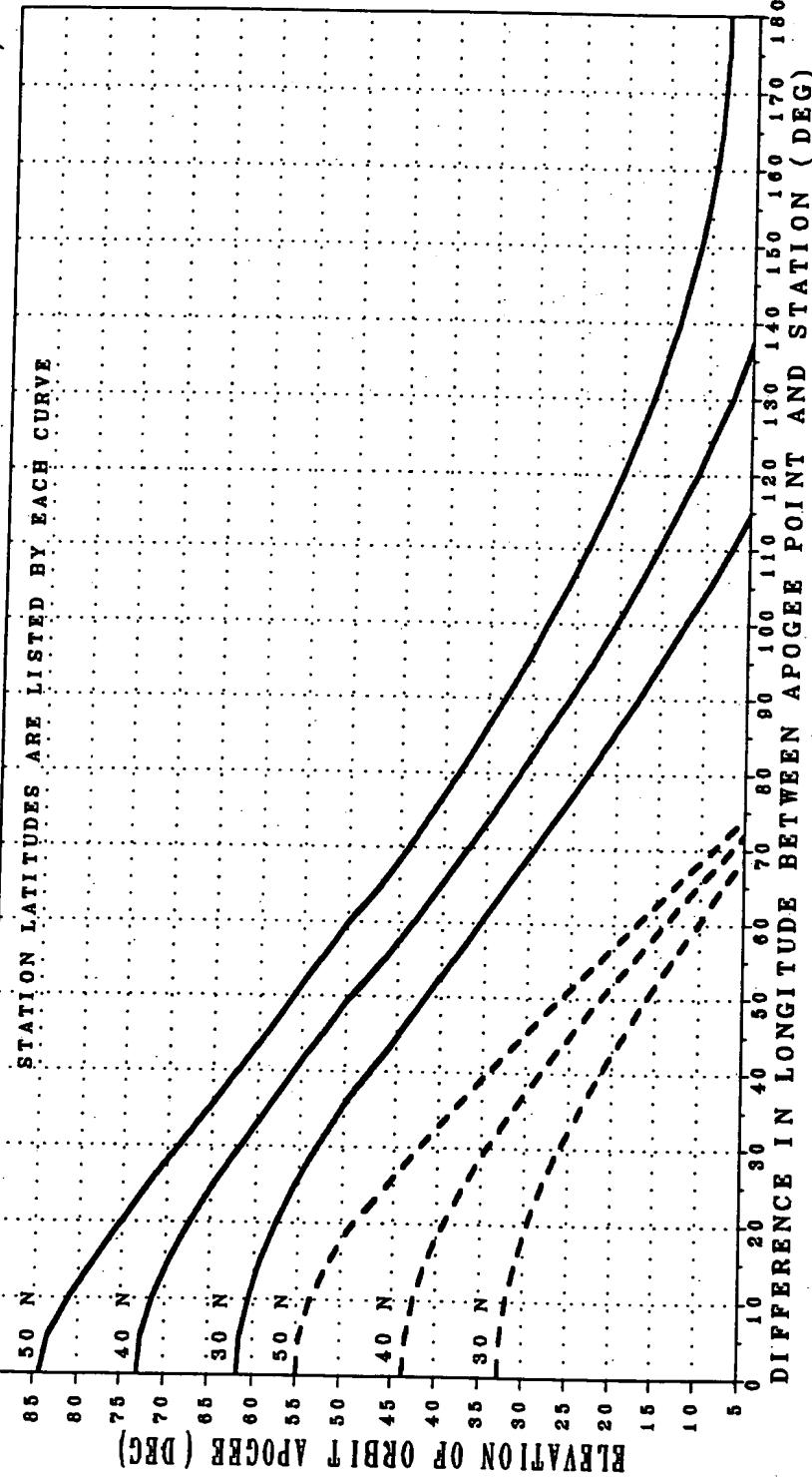


FIG. 8

40073696 - 024472

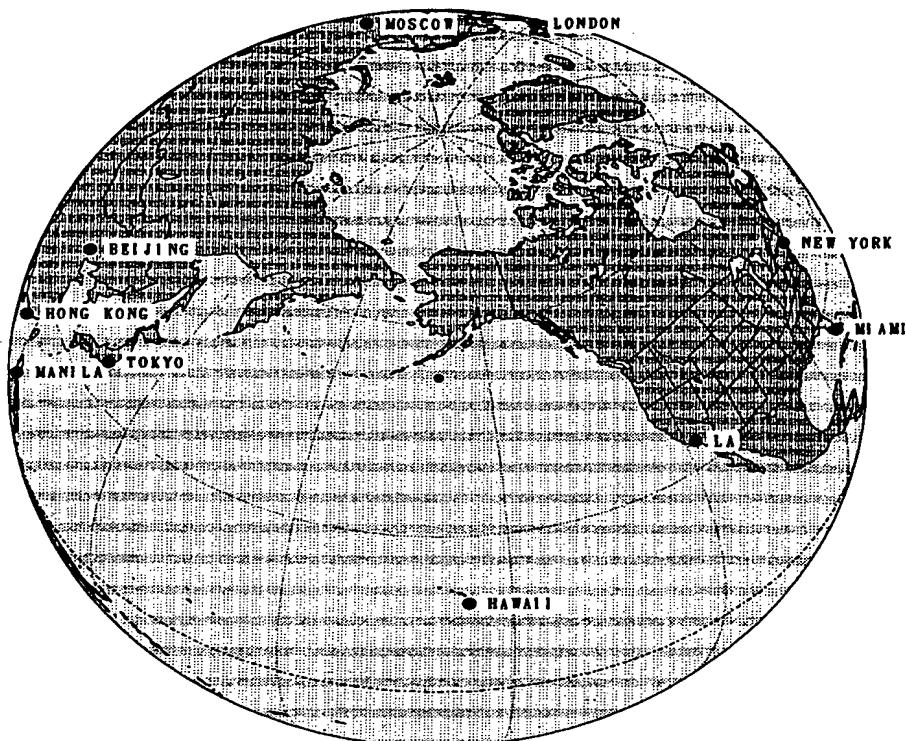


FIG. 9

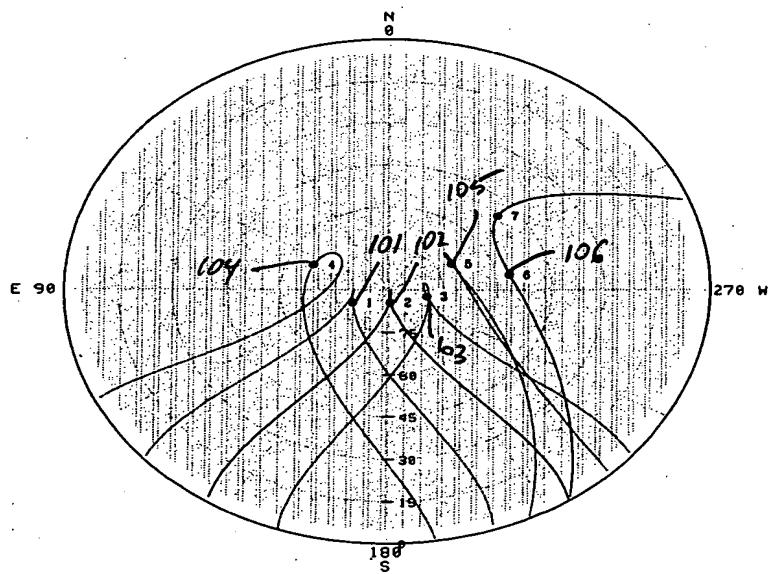


FIG. 10

SPACECRAFT APPARENT MOTION AS VIEWED FROM A GROUND SITE
ANTENNA AIM POINT: OPTIMIZED DIRECTION TO MINIMIZE SPACECRAFT MOTION

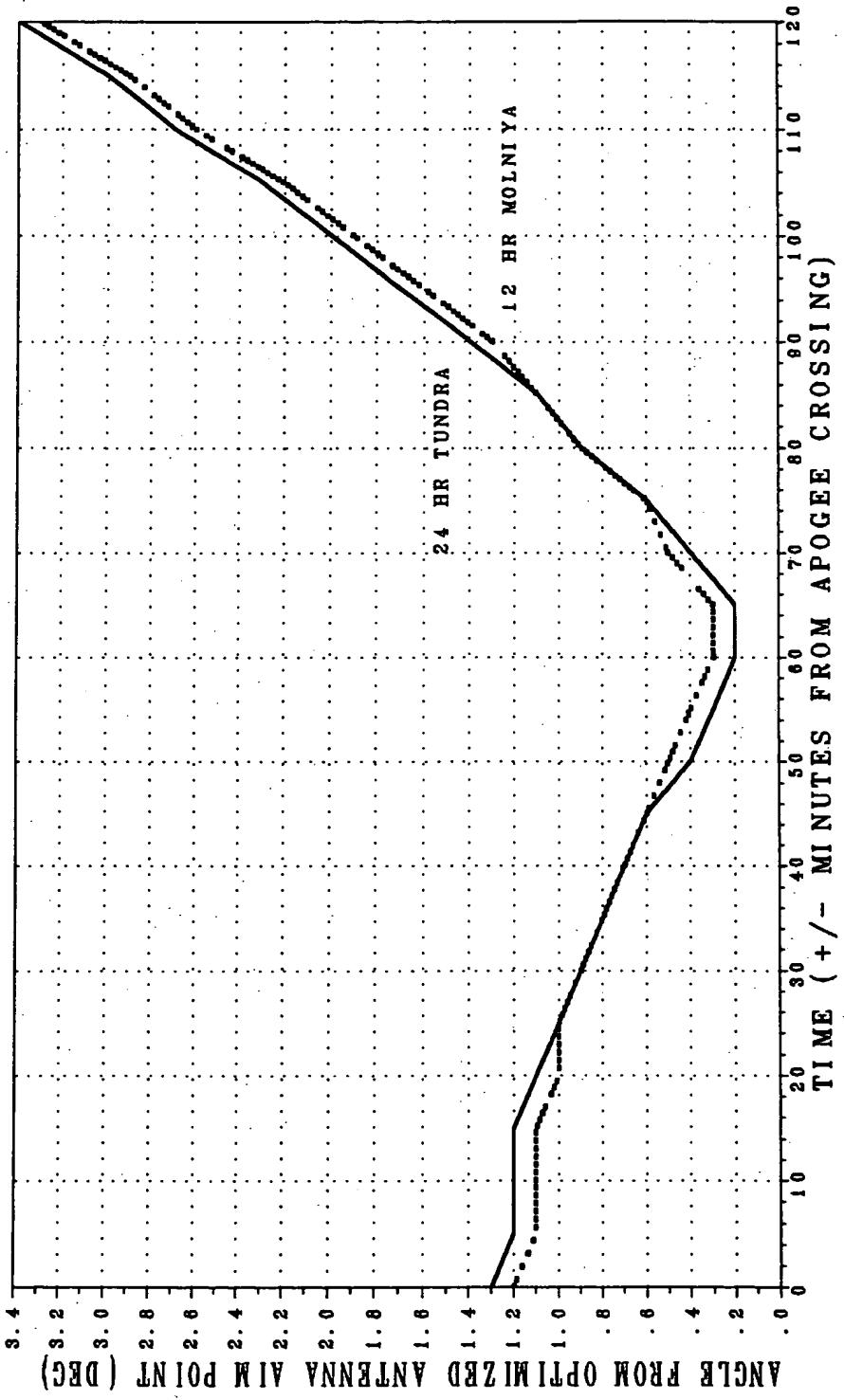


FIG. 11

2010-02-20 05:22:07

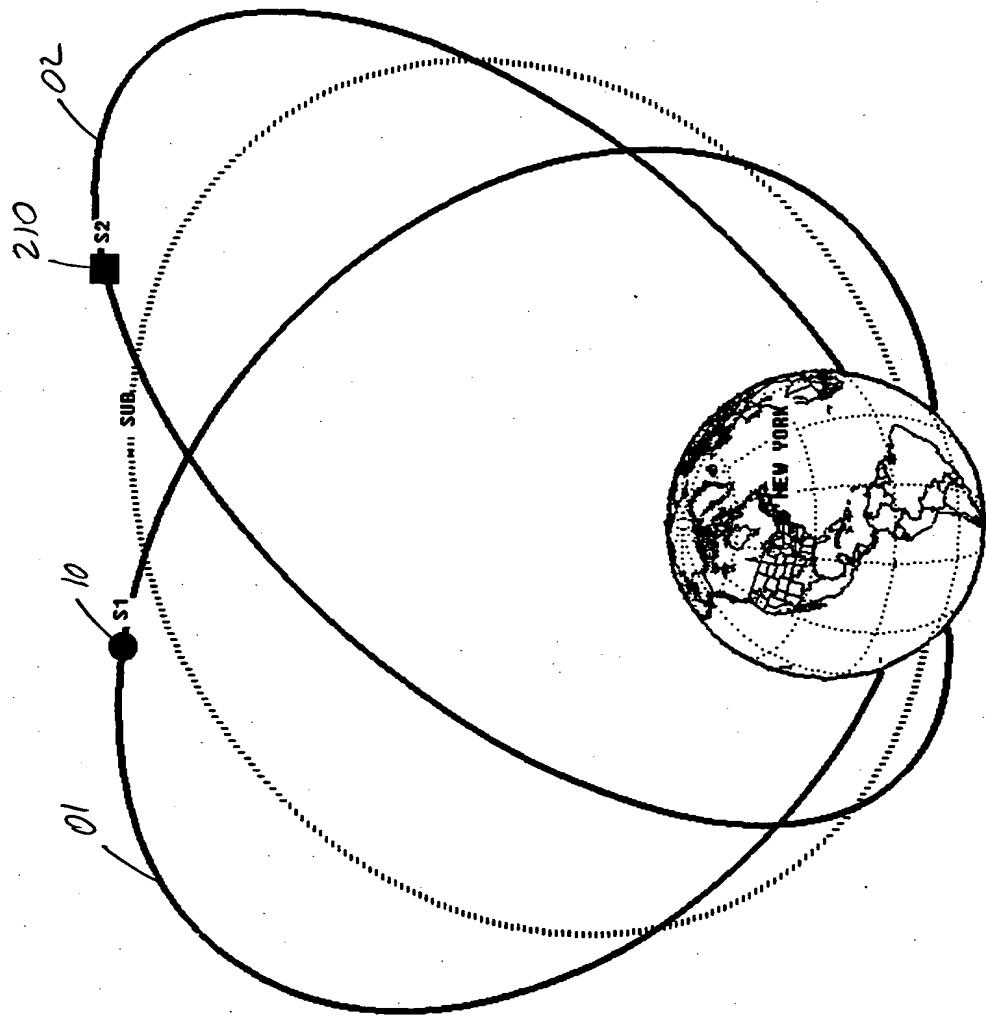


FIG. 12

2-SATELLITE LAUNCH AND MANEUVERING INTO 2 MOLNIYA ORBIT PLANES

2000 1800 1600 1400 1200 1000 800 600 400 200 0

VELOCITY INCREMENT FROM TRANSFER ORBIT TO TUNDRA ORBIT
INCLUDING PLANE CHANGE TO CONFIGURE ORBITAL PLANES

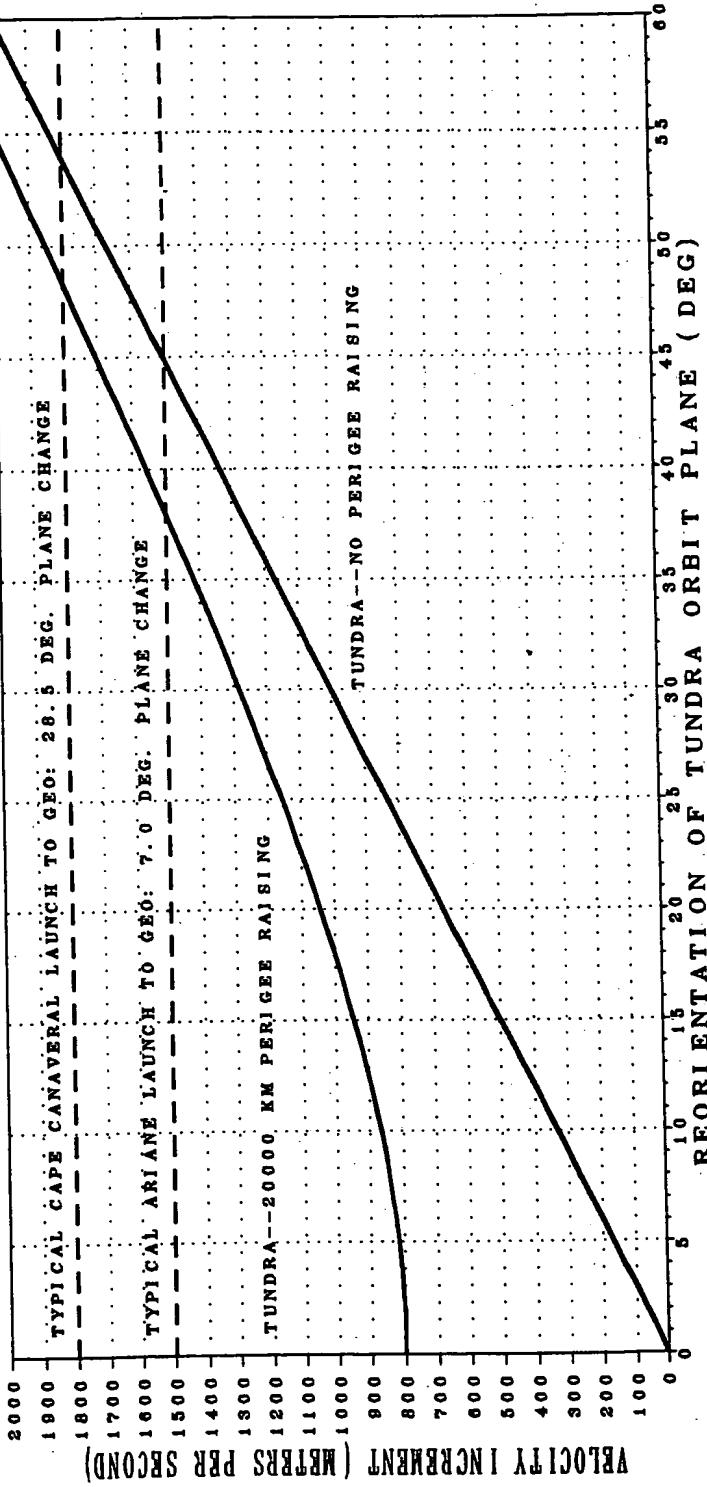


FIG. 13

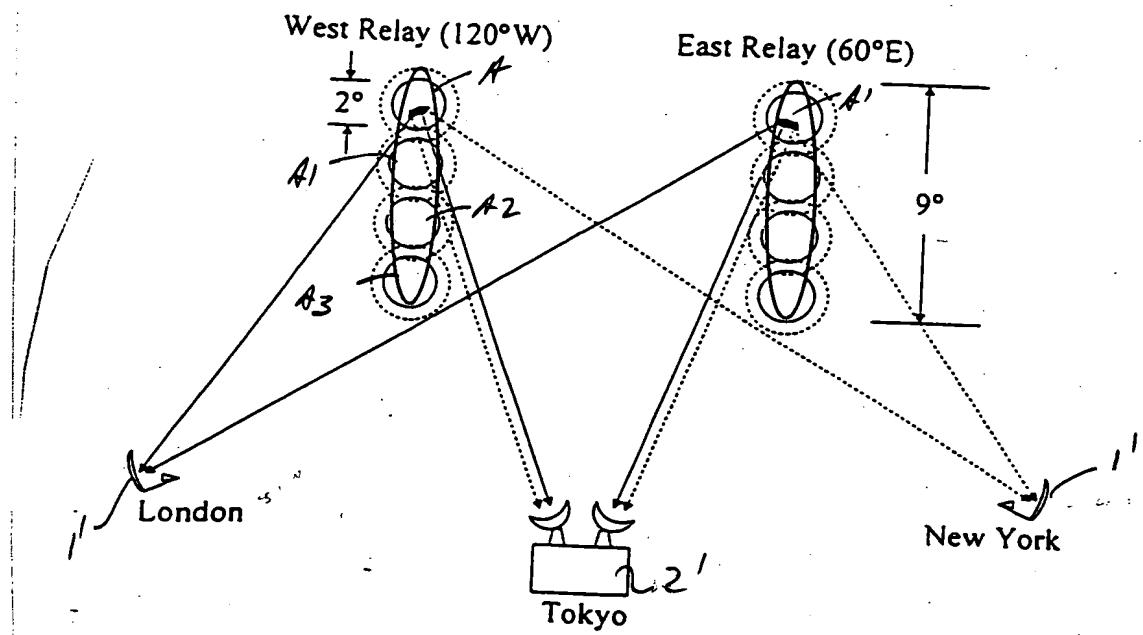


FIG. 14